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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,618	(02/13/2002	Masaaki Yoshimaru	2002-0056A	6815
513	7590	03/31/2004		EXAMINER	
		ID & PONACK	YOON, TAE H		
2033 K STR SUITE 800	EEI N. W	· •	ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC	20006-1021		1714	

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/031,618	YOSHIMARU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tae H Yoon	1714				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. 3.1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	<u> 2 Jan. 2002, Pre. Amdt</u> .					
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.					
3) Since this application is in condition for allo	wance except for formal ma	tters, prosecution as to the merits is				
closed in accordance with the practice unde	er <i>Ex parte Quayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Clairn(s) <u>1-16</u> is/are pending in the applicat 4a) Of the above claim(s) is/are with						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	niner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to	the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor	rection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bur	, , ,					
* See the attached detailed Office action for a	list of the certified copies no	t received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date	(08) 5) Notice of 6) Other:	Informal Patent Application (PTO-152)				
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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited "A <u>polymer</u> comprising a triphenylboron-containing constituting unit of the formula [I] -----; and a group of the formula (2b) --- " in claim 1 is confusing since the formulae (1a), (2a) and (3a) is a part of the polymer, but the formula (2b) without the coordinating arrow is not a part of the polymer. Thus, claimed invention in claim 1 would be a composition rather than a polymer. Clarification is needed.

There are two claims each reciting claim number 11 and 12 in the original claims and amended claims filed on January 22, 2002, but the Marked-up copy of claims does not show one set of original claims 11 and 12 with respect to "the fouling preventive" (the intended use recited in said claims 11 and 12 has no probative value though). Thus, clarification is needed. Note that new claim number must start from the original claims and thus new claims 11-16 would be claims 13-18 even with the cancellation of the original claims 11 and 12. Claim 16 failed to further limit claim 7, and cancellation is suggested.

Claims 1-16 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,462,102 teach a polymer from a complex of vinylpyridine and triphenylborane at col. 5, lines 66 and col. 7, lines 16-19, but fail to suggest employing the instant amino-substituted, N-containing heterocycle. (formula (2b)). WO98/33829 (abstract) teaches a triphenylborane-containing polymer, but fail to suggest the instant formulae (1a), (2a) or (3a) and (2b). US 3,211,679 teaches a complex of triphenylborane and a heterocyclic amine such as pyridine, but fails to suggest an acid polymer complexed with said complex at col. 2. US 4,174,339 teaches a copolymer complexed with trialkyl-tin compound in abstract.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tae H Yoon
Primary Examiner

Art Unit 1714

THY/March 22, 2004